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10/815,454	03/31/2004	David Wheeler	884.B58US1	6377
21186 7590 07/24/2008 SCHWEGMAN, LUNDBERG & WOESSNER, P.A. P.O. BOX 2938			EXAMINER	
			SHAIFER HARRIMAN, DANT B	
MINNEAPOLI	MINNEAPOLIS, MN 55402		ART UNIT	PAPER NUMBER
			2134	
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			07/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/815,454	WHEELER ET AL.			
Office Action Summary	Examiner	Art Unit			
	DANT B. SHAIFER HARRIMAN	I 2134			
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet with th	e correspondence address			
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory. - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNICAT CFR 1.136(a). In no event, however, may a reply be ion. period will apply and will expire SIX (6) MONTHS for the statute, cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communication. DNED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on Za) This action is FINAL . 2b)	This action is non-final. Ilowance except for formal matters,				
Disposition of Claims					
4) ☐ Claim(s) 1-29 is/are pending in the appl 4a) Of the above claim(s) is/are wi 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-29 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and application Papers 9) ☐ The specification is objected to by the Example 100 ☐ The deposit of the large 24 Margin 200 Air and 100 ☐ The deposit of the large 24 Margin 200 Air and 100 ☐ The deposit of the large 24 Margin 200 Air and 100 ☐ The deposit of the large 24 Margin 200 Air and 100 ☐ The deposit of the large 24 Margin 200 Air and 100 ☐ The deposit of the large 24 Margin 200 Air and 100 ☐ The deposit of the large 24 Margin 200 Air and 100 ☐ The deposit of the large 24 Margin 200 Air and 100 ☐ The deposit of the large 24 Margin 200 Air and 100 ☐ The deposit of the large 24 Margin 200 Air and 100 ☐ The deposit of the large 24 Margin 200 ☐ The deposit of the large 24 Margin 200 ☐ The large 24 Margin 200 ☐ The large 25 ☐ The deposit of the large 25 ☐ The large 26 ☐ The l	thdrawn from consideration. and/or election requirement. aminer.				
10)⊠ The drawing(s) filed on <u>31 March 2004</u> is/ Applicant may not request that any objection Replacement drawing sheet(s) including the country. The oath or declaration is objected to by the country of the country	to the drawing(s) be held in abeyance. correction is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ 48) Paper No(s)/Mai 5) Notice of Inform 6) Other:				

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DETAILED ACTION

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Response to Amendment

Status of the Application:

- Claims 1 29 are original in the instant application.
- No claims are amended in the instant application.
- No claims are cancelled in the instant application.
- Referring to claims 1 5 under the 35 USC 101 for non-statutory subject matter, applicants arguments have been fully considered and are not persuasive, please see the office action below for details.
- Referring to claims 9 12 & 16 18 & 23 25 & 26 29 under the 35
 USC 101 for non-statutory subject matter, applicants arguments have
 been fully considered and are not persuasive, please see the office action
 below for details.

Response to Arguments

 Applicants arguments/remarks filed 06/11/2008 have been fully considered and found to be not persuasive.

Examiners response to applicant's arguments/remarks

Applicant states:" However, this section of Kaplan does not disclose that the associated header for the data encryption key defines which of the cryptographic units are to use the data encryption key."

 The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to Col. 88, lines 36 – 42 & Col. 89, lines 40 – 51, the examiner notes that the headers are for example, DEK (or Data encryption keys), KEK (or Key Encryption keys), HMAC (or Message Authentication Code keys), which describe what the keys function is, and what the perspective crypto processor is to do with it, based on what Application requested it.

Applicant states:" Because Kaplan does not disclose each element of claim 1, Applicant respectfully submits that the rejection of claim 1 under 35 U.S.C. §102 has been overcome."

 The examiner respectfully disagrees with applicant's logic and reasoning, the examiner points to the examiners previous logic and reasoning above.

Applicant states:" However, these sections doe not disclose two different units within a cryptographic processor, wherein an intermediate result generated by a first unit for use by a second unit of a cryptographic processor is not accessible external to the cryptographic processor."

 The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to Col. 6, lines 55 – 61, the examiner notes that the ASIC is the cryptoprocessor, which can contain, multiple different processors.

Applicant states:" Because Dariel does not disclose each element of claims 6 and 13, Applicant respectfully submits that the rejection of claims 6 and 13 under 35 U.S.C. §102 has been overcome."

• The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to examiner previous logic and reasoning above.

Applicant states:" This section does not disclose loading a key into a cryptographic unit for execution of a cryptographic operation if a response to a challenge (from the application processor that generated the primitive instruction for a cryptographic operation) is correct."

• The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to Col. 3, lines 63 – 67 & Col. 7, lines 28 – 36, Figure #2, component # 16, the examiner notes that the examiner interprets, "loading a key into a cryptographic unit for execution of a cryptographic operation if a response to a challenge (from the application processor that

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generated the primitive instruction for a cryptographic operation) is correct.," as if the ASIC (or application specific integrated circuit) is authenticated by the server, then the decryption keys will be sent to the ASIC to decrypted the requested encrypted content.

Applicant states:" Because Dariel does not disclose each element of claim 9, Applicant respectfully submits that the rejection of claim 9 under 35 U.S.C. §102 has been overcome."

 The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to examiner previous logic and reasoning above.

Applicant states:" Claim 19 includes a similar limitation to claim 9 - "performing the following operations, if the response is correct." The Office did not indicate where this limitation was disclosed."

 The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to Col. 3, lines 63 – 67 & Col. 7, lines 28 – 36, Figure #2, component # 16, also please examiner previous logic and reasoning, that is reproduced below regarding this claim.

Applicant states:" Accordingly, for at least the reasons set forth for claim 9, Applicant respectfully submits that the rejection of claim 19 under 35 U.S.C. §102 has been overcome."

 The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to examiner previous logic and reasoning above.

Applicant states:" However, these sections of Dariel do not disclose performing an operation in a cryptographic unit using a key if the header associated with that key defines the cryptographic unit."

 The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to Col. 6, lines 55 – 61, the examiner notes that there are multiple different cryptographic coprocessors, on the ASIC that will generate encrypted content according to a specific protocol (i.e. DES or AES) that utilizes a key that is specifically or algorithmically generated by the crypto co-processor.

Applicant states:" Because Dariel does not disclose each element of claim 16, Applicant respectfully submits that the rejection of claim 16 under 35 U.S.C. § 102 has been overcome."

• The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to examiner previous logic and reasoning above.

Applicant states:" However, these sections of Howard do not disclose performing an operation in a cryptographic unit using a key if the header associated with that key defines the cryptographic unit."

The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to Col. 5, lines 50 – 67, but specifically Col. 5, lines 59 – 67, the examiner notes that the value v2 points to seed key k1, which then is hashed and a real key k2 # 320 is produced for the encryption of the requested data.

Applicant states:" Because Howard does not disclose each element of claim 23, Applicant respectfully submits that the rejection of claim 23 under 35 U.S.C. § 102 has been overcome."

• The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to the examiners previous logic and reasoning above.

Applicant states:" Among the differences, claim 26 recites "performing the following operations, if the response is correct." The Office did not indicate what sections of Howard include this limitation."

The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to Col. 3, lines 63 − 67 & Col. 7, lines 28 − 36, Figure #2, component # 16, also please examiner previous logic and reasoning, that is reproduced below regarding this claim.

Applicant states:" Because Howard does not disclose each element of claim 26, Applicant respectfully submits that the rejection of claim 26 under 35 U.S.C. §102 has been overcome."

 The examiner respectfully disagrees with applicants logic and reasoning, the examiner points to the examiners previous logic and reasoning above.

Specification

1. The disclosure is objected to because of the following informalities: the applicant's summary is missing.

Appropriate correction is required.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim(s) 1 – 5 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claims lack the necessary physical articles or objects to constitute a machine or a manufacture within the meaning of 35 USC 101. They are clearly not a series of steps or acts to be a process nor are they a combination of chemical compounds to be a composition of matter. As such, they fail

to fall within a statutory category. They are, at best, functional descriptive material *per se*.

Furthermore the examiner would like to note that the claim limitations describe software per se, which is clearly not a statutory category.

Claim(s) 9 - 12 & 16 - 18 & 23 - 25 & 26 - 29 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims(s) 9 - 12 & 16 - 18 & 23 - 25 & 26 - 29 are directed to cryptographic processor, that contains a non-volatile memory, program instructions, a controller.

This claimed subject matter lacks a practical application of a judicial exception (law of nature, abstract idea, naturally occurring phenomenon) since it fails to produce a useful, concrete and tangible result. Specifically, the claimed subject

matter does not produce a tangible result because the claimed subject matter fails to produce a result that is limited to having real world value rather than a result that may be interpreted to be abstract in nature as, for example, a thought, a computation, or manipulated data. More specifically, the claimed subject matter provides for the above mentioned claims recite claim limitations that are conditional in nature, meaning that "if event (Z) happens then event (X) will be executed." Then what if event (Z) doesn't happen, then event (X) will not happen. The examiner point is, if event (Z) doesn't happen, then nothing tangible is happening to event (X), which would be "executing event (X)." Specifically, the examiner notes that the independent claim # 9 is only tangible if the "response is correct", then the examiner concludes that the cryptographic key is just sitting in memory (non - volatile), being not tangible.

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This produced result remains in the abstract and, thus, fails to achieve the required status of having real world value.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim(s) 1 - 5 are rejected under 35 U.S.C. 102(e) as being taught by Kaplan et al. (US Patent # 6704871 B1)

Kaplan teaches:

Claim #1. An apparatus comprising:

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one or more cryptographic units (Col. 6, lines 55 – 61 &
 Col. 4, lines 42 - 44 & Col. 4, lines 57 - 63); and

 a memory to store one or more data encryption keys and an associated header for the one or more data encryption keys(Col. 6, lines 40 - 45),

wherein

 the associated header defines which of the one or more cryptographic units are to use the data encryption key(Col. 41, lines 53 – 67 & Col. 42, lines 1 – 5).

Claim #2. The apparatus of claim 1, wherein

 the associated header defines a usage type for the data encryption key(Col. 41, lines 53 – 67 & Col. 42, lines 1 Application/Control Number: 10/815,454

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-5).

Claim #3. The apparatus of claim 2 further comprising

a controller to restrict which of the one more
 cryptographic units are to use the data encryption key
 and a type of operation based on the associated header
 for the data encryption key(Col. 22, lines 18 – 39 & Col.
 24, lines 61 – 65 & Col. 27, lines 56 – 64).

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Claim #4. The apparatus of claim 1, wherein

the associated header defines an identification of a key encryption key used to encrypt the one or more data encryption keys(Col. 7, lines 66 – 67 & Col. 8, lines 1 – 17 & Col. 39, lines 49 – 60 & Col. 40, lines 14 - 20).

Claim #5. The apparatus of claim 1, wherein

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 the one or more cryptographic units is from a group consisting of an

- advanced encryption standard unit(),
- a data encryption standard unit(Col. 5, lines 13 65),
- a message digest unit() and
- a secure hash algorithm unit(Col. 5, lines 66 67 & Col.
 6, lines 1 5 & Col. 6, lines 61 67 & Col. 10, lines 27 34) or
- an exponential algorithmic unit().

Claim(s) 6 - 22 are rejected under 35 U.S.C. 102(e) as being taught by Dariel (US Patent # 7058818).

Dariel teaches:

Claim #6. An apparatus comprising:

a cryptographic processor within a wireless device(Col. 6, lines 4 - 15),

the cryptographic processor comprising:

- a first cryptographic unit to generate an intermediate result from execution of a first operation(Col. 4, lines 19 25 & Col. 3, lines 1 55 & Col. 3, lines 19 25 & Col. 6, lines 14 27, Figure #, the examiner notes that the examiner considers the first cryptographic unit as equal to the second cryptographic unit, reasoning that applicant doesn't differentiate between first and second cryptographic unit, therefore they are one and the same); and
- a second cryptographic unit to generate a final result from execution of a second operation based on the intermediate result(Col. 4, lines 19 25 & Col. 3, lines 1 55 & Col. 3, lines 19 25 & Col. 6, lines 14 27,

Figure #, the examiner notes that the examiner considers the first cryptographic unit as equal to the second cryptographic unit, reasoning that applicant doesn't differentiate between first and second cryptographic unit, therefore they are one and the same),

wherein

 the intermediate result is not accessible external to the cryptographic processor(Col. 4, lines 50 - 52).

Claim #7. The apparatus of claim 6, wherein

the first cryptographic unit and the second
 cryptographic unit are from a group consisting of an advanced encryption standard unit, a data encryption

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standard unit, a message digest unit and a secure hash algorithm unit or an exponential algorithmic unit(Col. 6, lines 55 – 61 & Col. 4, lines 1- 5 & Col. 7, lines 42 - 47).

Claim #8. The apparatus of claim 6, wherein

 the first operation includes the use of a cryptographic key(Col. 3, lines 38 - 47),

wherein

 the cryptographic key is not loaded into the first cryptographic unit until the cryptographic key is authenticated(Col. 3, lines 63 - 67).

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Claim #9. A system comprising

- a dipole antenna to receive a communication(Col. 6, lines 4 – 15, the examiner notes that a mobile or cellular phone will have a dipole antenna, that receives radio waves);
- an application processor to generate a primitive instruction for a cryptographic operation that is to use a cryptographic key based on the communication(Col. 4, lines 19 25 & Col. 3, lines 1 55 & Col. 3, lines 19 25 & Col. 6, lines 14 27, the examiner considers the co-processor as a application processor that executes encryption and decryption of the data and keys); and

a cryptographic processor that comprises:

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a memory to store the cryptographic key(Col. 6, lines
 22 – 29);

a number of cryptographic units, wherein

- one of the number of cryptographic units is to generate
 a challenge to the use of the cryptographic key, wherein
 the application processor is to generate a response to
 the challenge(Col. 3, lines 63 67); and
- a controller to load the cryptographic key into one of the number of cryptographic units for execution of the cryptographic operation if the response is correct (Col. 7, lines 20 32).

Claim #10. The system of claim 9, wherein

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 the cryptographic processor further comprises a nonvolatile memory that is to store a number of microcode instructions(Col. 6, lines 22 – 29),

wherein

the controller is to load the cryptographic key into one
 of the number of cryptographic units based on at least
 part of the number of microcode instructions(Col. 7,
 lines 20 − 32 &Col. 6, lines 22 − 29).

Claim #11. The system of claim 9, wherein

the controller is to abort execution of the cryptographic operation if the response is not correct(Col. 7, lines 20

– 32, the examiner notes that to one of ordinary skill in the art, if the user or remote platform isn't authenticated Application/Control Number: 10/815,454

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then the request encrypted data will not be transferred).

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Claim #12. The system of claim 9, wherein

 the response includes a hash of a password associated with the cryptographic key(Col. 6, lines 55 - 60).

Claim #13. A system comprising:

an application processor, within a wireless device, to generate a primitive instruction related to a cryptographic operation (Col. 4, lines 19 – 25 & Col. 3, lines 1 – 55 & Col. 3, lines 19 – 25 & Col. 6, lines 14 – 27, the examiner considers the co-processor as a application processor that executes encryption and

decryption of the data and keys); and

a cryptographic processor, within the wireless device, the cryptographic processor comprising:

- a controller to receive the primitive instruction, wherein the controller is to retrieve a number of microcode instructions from a nonvolatile memory within the cryptographic processor (Col. 6, lines 22 – 29 & Col. 7, lines 20 – 32);
- a first functional unit to generate an intermediate result from execution of a first operation based on a first of the number of microcode instructions(Col. 4, lines 19 25 & Col. 3, lines 1 55 & Col. 3, lines 19 25 & Col. 6, lines 14 27, Figure #, the examiner notes that the examiner considers the first cryptographic unit as equal

to the second cryptographic unit, reasoning that applicant doesn't differentiate between first and second cryptographic unit, therefore they are one and the same); and

a second functional unit to generate a final result for the cryptographic operation based on the intermediate result, from execution of a second operation based on a second of the number of microcode instructions, wherein the intermediate result is not accessible external to the cryptographic processor(Col. 4, lines 19 – 25 & Col. 3, lines 1 – 55 & Col. 3, lines 19 – 25 & Col. 6, lines 14 – 27, Figure #, the examiner notes that the examiner considers the first cryptographic unit as equal to the second cryptographic unit, reasoning that applicant doesn't differentiate between first and second

cryptographic unit, therefore they are one and the same).

Claim #14. The system of claim 13, wherein

 the cryptographic processor further compromises a volatile memory to store a cryptographic key(Col. 6, lines 22 – 29).

Claim #15. The system of claim 14, wherein

 the second functional unit is to use the cryptographic key to generate the final result, wherein the controller is not to load the cryptographic key into the second functional unit until the application processor is to authenticate the cryptographic key(Col. 3, lines 63 - 67).

Claim #16. A method comprising:

- receiving a primitive instruction into a cryptographic processor(Col. 3, lines 63 - 67, the examiner notes that the cryptographic processor located on the ASIC (application specific integrated circuit) initiates with the content server for requesting content), for
- execution of a cryptographic operation that uses a data encryption key that is protected within the cryptographic processor(Col. 3, lines 25 - 62 & Col. 7, lines 20 - 48);
- retrieving the data encryption key and an associated header for the data encryption key, wherein the

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associated header defines which of one or more cryptographic units are to use the data encryption key(Col. 3, lines 25 - 62 & Col. 7, lines 20 – 48, the examiner notes that the data packets sent from the content server to the ASIC and cryptographic, coprocessors, will contain the necessary IP addresses to reach the ASIC and processor); and

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 performing an operation within one of the one or more cryptographic units using the data encryption key, if the associated header defines the one of the one or more cryptographic units(Col. 3, lines 25 - 62 & Col. 7, lines 20 - 48).

Claim #17. The method of claim 16, wherein

the associated header defines a usage type for the data encryption key(Col. 3, lines 25 - 62 & Col. 7, lines 20 – 48, the examiner notes that the data packets sent from the content server to the ASIC and cryptographic, coprocessors, will contain the necessary IP addresses to reach the ASIC and processor).

Claim #18. The method of claim 17, wherein

performing the operation within one of the one or more cryptographic units using the data encryption key comprises performing the operation within one of the one or more cryptographic units using the data encryption key if a type of the operation is defined by the usage type(Col. 3, lines 25 - 62 & Col. 7, lines 20 – 48, the examiner notes that the data packets sent from the content server to the ASIC and cryptographic, co-

processors, will contain the necessary IP addresses to reach the ASIC and processor).

Claim #19. A method comprising:

- receiving a primitive instruction into a cryptographic processor from an application executing on an application processor, for execution of a cryptographic operation that uses a cryptographic key that is protected within the cryptographic processor (Col. 3, lines 63 67 & Col. 7, lines 20 48);
- generating a challenge for use of the cryptographic key back to the application (Col. 3, lines 63 – 67 & Col. 7, lines 20 – 48, the examiner notes that the user platform or remote platform send a authorization request or

challenge to obtain clearance to gain access to the request content from the content server);

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receiving a response to the challenge into the cryptographic processor from the application (Col. 3, lines 63 – 67 & Col. 7, lines 20 – 48, the examiner notes that the user platform or remote platform "will" or "will not" have access to the requested content based on if the user's authentication data matches the content server user's authentication data);

performing the following operations, if the response is correct:

 loading the cryptographic key into a functional unit of the cryptographic processor (Col. 3, lines 63 – 67 &

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Col. 7, lines 20 - 48); and

 executing an operation within the functional unit using the cryptographic key (Col. 3, lines 63 – 67 & Col. 7, lines 20 – 48).

Claim #20. The method of claim 19, further comprising

aborting execution of the primitive instruction if the response is not correct (Col. 3, lines 63 – 67 & Col. 7, lines 20 – 48, the examiner notes that the user platform or remote platform "will" or "will not" have access to the requested content based on if the user's authentication data matches the content server user's authentication data).

Claim #21. The method of claim 19, wherein

 receiving the response to the challenge into the cryptographic processor from the application includes receiving a hash of a password associated with the cryptographic key (Col. 3, lines 63 – 67 & Col. 7, lines 20 – 48).

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Claim #22. The method of claim 21, wherein

performing the following operations, if the response is correct comprises performing the following operations, if the hash of the password is equal to a hash of the password generated within the cryptographic processor (Col. 3, lines 63 – 67 & Col. 7, lines 20 – 48).

Claim(s) 23-29 are rejected under 35 U.S.C. 102(e) as being taught by Howard et al. (US Patent # 7269736 B2).

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Howard teaches:

Claim #23. A machine-readable medium that provides instructions, which when executed by a machine, cause said machine to perform operations comprising (Col. 3, lines 9 - 13):

- receiving a primitive instruction into a cryptographic processor, for execution of a cryptographic operation that uses a data encryption key that is protected within the cryptographic processor (Col. 2, lines 60 65 & Col. 5, lines 17 22);
- retrieving the data encryption key and an associated header for the data encryption key, wherein the associated header defines which of one or more cryptographic units are to use the data encryption

key(Col. 2, lines 60 – 65 & Col. 5, lines 17 – 49 & Figure # 2a & 2b, the examiner notes that the data packets that are sent to the second device will inherently have a source and destination address to the processor of the mobile device, to be encrypted); and

 performing an operation within one of the one or more cryptographic units using the data encryption key, if the associated header defines the one of the one or more cryptographic units (Col. 2, lines 60 – 65 & Col. 5, lines 17 - 49).

Claim #24. The machine-readable medium of claim 23, wherein

the associated header defines a usage type for the data
 encryption key (Col. 2, lines 60 – 65 & Col. 5, lines 17 –

49, the examiner notes that the data packets will indicate whether they are to be encrypted or not to the second device).

Claim #25. The machine-readable medium of claim 24, wherein

performing the operation within one of the one or more cryptographic units using the data encryption key comprises performing the operation within one of the one or more cryptographic units using the data encryption key if a type of the operation is defined by the usage type (Col. 2, lines 60 – 65 & Col. 5, lines 17 – 49 & Figure # 2a & 2b, the examiner notes that the data packets that are sent to the second device will inherently have a source and destination address to the

processor of the mobile device, to be encrypted).

Claim #26. A machine-readable medium that provides instructions, which when executed by a machine, cause said machine to perform operations comprising (Col. 3, lines 9 - 13):

 receiving a primitive instruction into a cryptographic processor from an application executing on an application processor, for execution of a cryptographic operation that uses a cryptographic key that is protected within the cryptographic processor (Col. 5, lines 17 - 22); Application/Control Number: 10/815,454

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 generating a challenge for use of the cryptographic key back to the application(Col. 6, lines 15 - 18);

 receiving a response to the challenge into the cryptographic processor from the application(Col. 6, lines 15 - 18);

performing the following operations, if the response is correct:

- loading the cryptographic key into a functional unit of the cryptographic processor (Figure # 2 & Col. 5, lines 16 - 40); and
- executing an operation within the functional unit using the cryptographic key(Col. 5, lines 16 - 40).

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Claim #27. The machine-readable medium of claim 26, further comprising

 aborting execution of the primitive instruction if the response is not correct(Col. 6, lines 15 – 18, the examiner notes that if the user cancels the transfer of the data to be encrypted the execution will be "aborted").

Claim #28. The machine-readable medium of claim 26, wherein

 receiving the response to the challenge into the cryptographic processor from the application includes receiving a hash of a password associated with the cryptographic key(Col. 6, lines 15 – 18).

Claim # 29. The machine-readable medium of claim 28, wherein

 performing the following operations, if the response is correct comprises performing the following operations, if the hash of the password is equal to a hash of the password generated within the cryptographic processor (Col. 6, lines 15 – 18).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANT B. SHAIFER HARRIMAN whose

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telephone number is (571)272-7910. The examiner can normally be reached on Monday - Thursday: 8:00am - 5:30pm Alt.Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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